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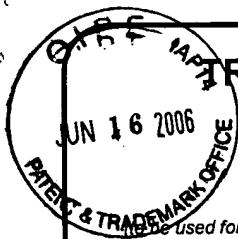
PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

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1635


**TRANSMITTAL  
FORM**

(Not to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	09/479,783
Filing Date	January 7, 2000
First Named Inventor	Stanley T. Crooke
Art Unit	1635
Examiner Name	Sean McGarry
Attorney Docket Number	ISIS0002-102 (ISIS-4313)

**ENCLOSURES (check all that apply)**

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Forms PTO SB/08a and SB/08b (2 pp.); (12) References Cited, (12) References Enclosed.
<b>Remarks</b> <b>EXPRESS MAIL LABEL NO: EV514686582US</b> <b>DATE OF DEPOSIT: 16 JUNE 2006</b> <b>EV514686582US</b>		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm	Cozen O'Connor		
Signature			
Printed Name	Paul K. Legaard, Ph.D.		
Date	16 June 2006	Reg. No.	38,534

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature			
Typed or printed name		Date	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Stanley T. Crooke

Serial No.: 09/479,783

Group Art Unit: 1635

Filing Date: January 7, 2000

Examiner: Sean McGarry

For: Oligoribonucleotides and Robonucleases for Cleaving RNA

EXPRESS MAIL LABEL NO: EV514686582US  
DATE OF DEPOSIT: 16 JUNE 2006

**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Pursuant to 37 C.F.R. §§ 1.56 and in accordance with 37 C.F.R. §§ 1.97 and 1.98, information relating to the above-identified application is hereby disclosed, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO Forms SB/08A and SB/08B, formerly known as PTO Form 1449, submitted herewith.

Inclusion of the information submitted herewith is not to be construed as an admission that the information is material as that term is defined in 37 C.F.R. § 1.56(b).

In accordance with 37 C.F.R. § 1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made.

**This Supplemental Information Disclosure Statement is being filed:**

- within three months of the filing date of the patent application.
- within three months of the date of entry into the national stage as set forth in 37 C.F.R. § 1.491 of the international application.
- before the mailing date of a first Office Action on the merits.
- before the mailing date of a first Office Action on the merits after the filing of a Request for Continued Examination under § 1.114.
- after the mailing date of a first Office Action on the merits or after the filing of a Request for Continued Examination under § 1.114, but before the mailing

date of a Final Office Action under 37 C.F.R. § 1.116 or a Notice of Allowance under 37 C.F.R. § 1.311, and accordingly is accompanied by:

the Statement under 37 C.F.R. § 1.97(e) (see "Statement" below);

or

the Fee of \$180.00 set forth in 37 C.F.R. § 1.17(p); or

No fee is owed by the applicant(s).

- In accordance with 37 C.F.R. § 1.129(a), this Information Disclosure Statement is being filed in connection with the  first or  second After Final Submission, and accordingly is accompanied by the Statement under 37 C.F.R. § 1.97(e) (see "Statement" below) and the fee of \$180.00 as set forth in 37 C.F.R. § 1.17(p), is attached.
- after the mailing date of a Final Office Action under 37 C.F.R. § 1.116 or a Notice of Allowance under 37 C.F.R. § 1.311, but before, or simultaneously with, the payment of the Issue Fee, and accordingly is accompanied by the Statement under 37 C.F.R. § 1.97(e), and the Fee of \$180.00 set forth in 37 C.F.R. § 1.17(p).
- Copies of the references listed on the attached PTO Forms SB/08A and SB/08B, formerly known as PTO Form 1449, are enclosed.

**EXCEPT THAT:**

- In view of the voluminous nature of references, and the likelihood that these reference are available to the Examiner, copies are not enclosed herewith.
- In accordance with 37 C.F.R. § 1.98(d), copies of the following references listed on the attached PTO Form SB/08A and PTO Form SB/08B, formerly known as PTO Form 1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) @@ for which a claim for priority under 35 U.S.C. § 120 have been made in the instant application.
- If any of the foregoing publications are not available to the Examiner, Applicant will endeavor to supply copies at the Examiner's request.

**Statement under 37 C.F.R. § 1.97(e)**

- The undersigned attorney hereby states that each item information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.

**Statement under 37 C.F.R. § 1.704(d)**

- The undersigned attorney hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and the communication was not received by any individual designated in §1.56(c) more than 30 days prior to the filing of the Information Disclosure Statement.

**Fees**

- No Fee is owed by the applicant(s).
- The Supplemental Information Disclosure Statement Fee of \$180.00 under 37 C.F.R. § 1.17(p) is enclosed herewith.
- The Petition Fee of \$130.00 under 37 C.F.R. § 1.17(i)(1) is enclosed herewith.

**Method of Payment of Fees**

- Attached is a check in the amount of \$\_\_\_\_\_ This form is submitted in duplicate.
- Charge Deposit Account No. 50-1275 in the amount of \$180.00. This form is submitted in duplicate.
- Please charge any deficiency or credit any overpayment to Deposit Account 50-1275.
- No fee or Statement is required under 37 C.F.R. § 1.97(b).

Respectfully submitted,



Paul K. Legaard, Ph.D.  
Registration No. 38,534

Dated: 16 JUNE 2006

COZEN O'CONNOR, P.C.  
1900 Market Street, 5<sup>th</sup> Floor  
Philadelphia, PA 19103-3508  
(215) 665-2000 – Telephone  
(215) 665-2013 - Facsimile



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

Approved for use through 07/01/2005. GPO 2004-163.

**U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE**

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Institute for form 1449A/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Shee

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of

Complete if Known	
<i>Application Number</i>	09/479,783
<i>Filing Date</i>	January 7, 2000
<i>First Named Inventor</i>	Stanley T. Crooke
<i>Art Unit</i>	1635
<i>Examiner Name</i>	Sean McGarry
<i>Attorney Docket Number</i>	ISIS0002-102 (ISIS-4313)

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date/Filing Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>8</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	AB	WO 97/46570	12-11-1997	ISIS Pharm.		
	AC	WO 00/63364	10-26-2000	Am Home Products		
	AD	DE 101 00 588	07-18-2002	Ribopharma		
	AE	WO 94/01550	01-20-1994	Hybridon		
	AF	EP 339842	11-02-1989	Ajinomoto Co.		
	AG	WO 93/07883	04-29-1993	ISIS Pharm.		

Examiner Signature		Date Considered	
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**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.4. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<i>Application Number</i>	09/479,783
<i>(Use as many sheets as necessary)</i>				<i>Filing Date</i>	January 7, 2000
				<i>First Named Inventor</i>	Stanley T. Crooke
				<i>Art Unit</i>	1635
				<i>Examiner Name</i>	Sean McGarry
Sheet	2	of	2	<i>Attorney Docket Number</i>	
ISIS0002-102 (ISIS-4313)					

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	AH	Hamilton et al., "A species of small antisense RNA in posttranscriptional gene silencing in plants," <i>Science</i> (1999) 286(5441):950-952.			
	AI	Hunter, "Genetics: a touch of elegance with RNAi," <i>Current Biology, Current Science</i> (1999) 9(12):R440-R442.			
	AJ	Kumar et al., "Antisense RNA: function and fate of duplex RNA in cells of higher eukaryotes," <i>Microbiology and Molecular Biology Reviews</i> (1998) 62(4):1415-1434.			
	AK	Hunziker et al., Nucleic Acid Analogues: Synthesis and Properties in Modern Synthetic Methods, ed., Ernst and Leumann, pp. 331-417 (1995).			
	AL	Opalinska et al., "Nucleic-acid therapeutics: basic principles and recent applications," <i>Nature Reviews</i> (2002) 1:503-514.			

Examiner Signature		Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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